

عنوان مقاله:

Synthesis, characterization and DNA-binding studies of a metal complexes of anthranilic acid

محل انتشار:

بیستمین سمینار شیمی معدنی ایران (سال: 1397)

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خلاصه مقاله:

The project first synthesizes, detects and investigates the spectroscopy of complexes of Ni, Cu and Zn binomial intermediates with anthranilic acid ligands. Synthesized complexes characterized using FT-IR, UV-vis and $^1\text{H-NMR}$. The electron spectra of these complexes have absorption bands in the region of 200-400 nm and intra-ligand transitions ($n \rightarrow \pi^*$, $\pi \rightarrow \pi^*$) of anthranilic acid. Bands in the range of 400-800 nm attributed to d-d transitions. The results obtained from the $^1\text{H NMR}$ study are also consistent with the theoretical results [1]. Investigation of the interaction of synthetic complexes with DNA at 298, 300 and 310 Kelvin temperatures was carried out using electron-absorption spectrophotometry technique, and ?? was obtained for the bonding of the complex with DNA. The [thermodynamic parameters, such as ΔG° , ΔH° and ΔS° , were calculated [2

کلمات کلیدی:

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